



# THE BLURB

PHILMONT MOBILE RADIO CLUB INC.

December  
1960

*Tis' the Christmas Season!*



# THE BLURB

Published Monthly by the  
Phil-Mont Mobile Radio Club, Inc.

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## EDITOR

Chas L. Stouth W3ZPP Br. 5-3741  
261 Prince Frederick Road  
King of Prussia, Pa.

## STAFF

Publisher	W3WNC
Cartoonist	W3YHV
Technical Editor	K3HLJ
Typist	K3JQC
New Members Chairman	W3CDY

## CIRCULATION AND PRINTING

Superintendent...W3GOW	Kibitzer...W3AWH
Boss Stitcher...W3JIL	Collator...K3DJE
Printer.....W3WNC	

The "BLURB" is published by and for the members of Phil-Mont to further the interest of Amateur Radio in general and Mobile Radio in particular. We endeavor to keep the news accurate, interesting and in a small way educational. Any deviation from this is unintentional. Copying and quoting is permitted, provided credit lines are included. Commercial use is not permitted and subscriptions are gladly exchanged with other radio clubs.

## DEADLINES

The "BLURB" is mailed on the last Monday of the month. All material for the "BLURB" must be received by the Editor, ZPP, before the fifteenth of the month.

## 1960 CLUB OFFICERS

PRES.	Hymen N. Hecht	W3WNC
V. PRES.	Lloyd Sherman	W3CDY
SEC'Y	Charles Greenwood	W3GOW
TREAS.	Tom Donnelly	W3VCE
HRD. of DIR:	W3's NIP, VVS, QQH, AWH, AK	
	and all 1960 Club officers.	

## MEETINGS

Regular meetings are normally held on the 1st Monday of the month. Check the Calendar at right for the exact date. Meetings are held at the FRANKLIN INSTITUTE at 21st and the Parkway, starting at 2000 hours (8:00 P.M.)

## NET AND NET FREQUENCIES

CH 1- 29493 Kcs.	CH 3- unassigned
CH 2- 29626 Kcs.	CH 4- 50.7 Mcs.
Scrambled egg net Weekdays	0730-0830
Ten on Ten Sundays	1000-1100
Blarney Sessions Anytime	Ch 1 or 2
29493 is monitored daily	0930-2400
for the benefit of mobiles in the Phila area.	

## PARC CALENDAR OF EVENTS

Dec. 5 REGULAR MEETING  
8 P.M. Franklin Institute  
Election of Officers

Dec. 14 MID-MONTH MEETING  
QH W3D8G  
518 Gordon Ave.  
Penn Valley, Pa.

SEND ALL COMMUNICATIONS FOR THE  
BLURB TO THE EDITOR, W3ZPP

THE PREZ SEZ:

As I collect my thoughts for this last article as president, I cannot help but think back on the happenings of the past year. I am proud to have been able to direct Phil-Mont in this past year, but I realize that I alone did not make this year successful for Phil-Mont, I had plenty of help.

To those members who went out of their way to discuss Phil-Mont's problems with me and helped reach a practical solution, I offer my heartfelt thanks. To those members who religiously helped me with the "BLURB" each month, I also offer my thanks. I offer my thanks to those members who willingly undertook the numerous Phil-Mont projects.

To the successful candidates for office-my congratulations and best wishes for a successful 1961.

And to each and every one of you.....A MERRY CHRISTMAS and a HAPPY NEW YEAR!

de

W3WNC

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#### ANNUAL BANQUET

November the 12th has come and gone. However it is not to be forgotten. That was the night of the Phil-Mont annual banquet held at the William Penn Inn. There were many prizes for both ladies and the men. Most of all was the fact that we had a goodly number present and everyone enjoyed themselves. From the comments passed around at the mid-month meeting it was felt that this was our best banquet to date. I am sure that we are all looking forward to next year and the next Phil-Mont banquet.

\* \* \* \* \*

#### THE ELECTIONS FOR 1961

The December 5th meeting will be held in the lecture hall at the Franklin Institute. We hope that all our members will turn out for this meeting and that you will bring your wives. This promises to be a very exciting election and one you won't want to miss. Refreshments will be served up in our regular meeting room after the program in the lecture hall.

\* \* \* \* \*

#### WELCOME MAT

We would like to extend a hearty welcome to our newest member Robert Schmilewske, K3KUD. Bob lives up in Glenside and will, I am sure, be an asset to Phil-Mont. Look for Bob at the next meeting and coming events and get to know him, he would like to know you.

\* \* \* \* \*

#### TAKE NOTE OF THIS NUMBER

Every effort will be made to keep W3RQZ available 8:30 to 5:00 Monday through Friday for emergencies, etc., with telephone facilities (not phone patch). The telephone number for reverse calling is GE 8-9833. If your XYL is trying to get you while you are mobile during these times, she can use this number and W3RQZ will give you a shout on the frequency.

Exchange of messages on behalf of third parties by U.S. amateurs except where special agreements have been effected between the following countries and the U.S. State Department.

Canada	Cuba	Hondouras	Nicaragua
Chile	Ecuador	Liberia	Panama
Costa Rica	Haiti	Mexico	Peru
	Paraguay	Venezuela	

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The first automobile trip across country from coast to coast took place in 1903. The time 63 days. 19 days were lost throughout the trip waiting for repairs.

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# GHOST PATROL

The following people supported the mischief night Ghost Patrol at Springfield township Delaware County, on Sunday, October the 30th. W3DJV, W3NIP, K3BJS, W3DQG, K3EID, W3IGW, K3HLJ, W3OEC, W3LNU, K3GJW, K3EAX, W3PKY and W3QQH who brought the Red Truck down. After protecting the property of the residents the night ended with coffee and doughnuts which everyone enjoyed. The Township police and the residents are grateful for the assistance these boys provide each year.

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Beware of the man who says he is the boss in his house. He may lie about other things too...

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Starting with the February 1961 issue, the "BLURB" will move to new headquarters. W3WNC, Hy, and his family who have handled this chore for some time, have reached a point where it is no longer in the best interest of Phil-Mont to continue this job. Hy has taken on a new post with the Navy Department, and it requires his traveling, therefore the deadline for getting the "BLURB" to press, might not be met. Hy has always seen to it that we got the "BLURB" out on time. We owe him and Anne a great BIG vote of thanks for their work in the past and hope they will continue to read the "BLURB" with pleasure in the future. W3LEM has provided us with quarters, our own little office for the equipment, and we hope in the future to make some changes that will improve the things that we can do with the club paper. We should also thank W3EQV and K3GNJ who offered to take on the duties of publisher and also our newest member K3KUD who likewise was willing to assume the job.

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# ALL MOBILE HAMS NOTE

For your own safety and the safety of other drivers, we strongly recommend that you use your automobile radio receiver only when the car is stationary. With road conditions the way they usually are, you should concentrate on driving and you should not have your attention distracted by musical programs or talks while the car is in motion. To prevent a wave of accidents, it is likely that state legislatures will make radioing-while-you drive, illegal.

The above appeared in the Summer issue, 1930, of Radio Design, as an "Important Notice" in a lead article describing an auto radio of the day. Where would Phil-Mont be today if these things had come to pass?

HATS OFF TO THE HATS IN PHIL-MONT

Who will win the presidential post in Phil-Mont in 1961???

No matter who wins, one thing is certain. The Sunday night roundtable sessions have helped all the members of FMRC to get to know the candidates and also to ask any questions they might have.

There is no doubt in my mind that these Sunday night sessions prove all of the candidates are able men and we will have a good president in 1961.

Charlie, W3YJM, has done a magnificent job as moderator. The manner in which he has conducted these sessions has done much to credit Phil-Mont in the eyes of others, not FMRC members, who have listened in. I have heard many complimentary remarks from people who state that our group must be quite unique and an excellent one. It has been a new kind of publicity for us.

Whoever is elected to office will have much food for thought to take with him.

These men who have given their time and cooperation, have now placed a responsibility on you and me. We owe it to them to come out to the December meeting and vote, then to get behind them at subsequent meetings and participate in their programs. From now on it is up to you.

\*\*\*\*\*

THE CANDIDATES:-	<u>PRESIDENT</u>	<u>SECRETARY</u>	<u>TREASURER</u>	<u>DIRECTOR</u>
	W3CDY	W3DJW	K3DJE	W3D\$G
	W3IRS	W3EQV	W3GOW	W3OEC
	W3NLP	W3ZPP	W3PST	W3VVS
	W3UMK			
	W3YHV			

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BY LAWS OF THE PHIL-MONT MOBILE RADIO CLUB, INC.

(This part of the by-laws reprinted here as a reminder.)

Article 12 ELECTIONS

Section 4 - The ballot for the elections in this association shall be by closed, written ballot.

Section 7 - PROXY VOTING. Proxy voting may be accomplished by a letter written to the proxy, signed by the absentee, and presented to the Judge of Elections for approval at the voting meeting.

In the letter, the absentee must state the names of each candidate for whom he wishes the proxy to vote for. Once the name of the candidate is dropped from the running, the proxy may then vote as he sees fit, keeping the proxy's desires in mind in so far as he is able.

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SAMPLE PROXY LETTER  
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To the Judge of Elections  
Phil-Mont Mobile Radio Club, Inc.

I hereby designate \_\_\_\_\_ my proxy, empowered to vote in my

NAME CALL

stead in the annual election. My choice for President \_\_\_\_\_

Secretary \_\_\_\_\_ Treasurer \_\_\_\_\_ Director \_\_\_\_\_

Date \_\_\_\_\_

NAME CALL

## PUTTING THE DX-40 On 50 MC.

(The Scoop)

Here is the procedure used by W5BRQ, Vicksburg, Miss., to put his Heath-Kit DX-40 On 6 meters.

1. First the 40 meter oscillator coil was removed and replaced with 10 turns of No. 26 enamel wire on a National XR-50 form, close wound. The XR-50 is slug tuned,  $\frac{1}{2}$  inch diameter.
2. Next the 10 meter buffer coil was replaced with 10 turns of No. 16 enamel wire, close wound,  $\frac{1}{4}$  inch diameter.
3. The last three (3) turns were then clipped from the 10 meter section of the final tank coil, at the bottom of the coil, and to the rear of the bottom coil spacer. The three (3) short ends were soldered together, and to the lead going to the final tuning capacitor.
4. The final amplifier plate choke was replaced with an Ohmite Z-50 (7 uh) r.f. choke, and a 8.4 Mc. crystal placed in the crystal socket.

To tune up the rig for 6 meter operation, the oscillator plate circuit is tuned to the third harmonic of the crystal. Check this with a grid-dip meter, or absorption-type wave meter. Adjust the drive capacitor for maximum grid current to the final, about 3 ma. in this instance. Tune the final amplifier to 50 mc. in the manner described in the instruction book. Check with a grid-dip meter or absorption-type wave meter, to be sure the signal is on the right frequency.

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## CHANNEL CHATTER.....

W5II, Otto heard back on the frequency....W3ADF heard saying with the passing of warm weather we'll be hearing him on more - we hope so Bill....early birds heard on the frequency are W3WNC, W3CW and K3GNJ....Power company opened the meter box at W3VVS's and fixed all the loose wires. Paul now has 120 volts on both lines....PMRC members nightly hamfests, pizza party at Sorrento's township line west of Westchester pike....K1PNO (formerly W3BTH) Tom, back in town for the QCWA banquet, Tom dropped in for a visit and to say that he is back on the air SSB 40 meters from South Sudbury, Mass....WOEXG, Bill, in Wichita was on hand to relay some emergency traffic from Philly to W3IVD down in Maryland, thanks Bill and keep that receiver on 29493....K3EZJ, George, was a visitor at the last meeting....other visitors W3JYA, W3IER, W3KD and W3GOY, come again fellows glad to have you with us....W3NIP says that all the people ordering lobster tail eat together next time, since roast beef dinners at the banquet had to wait for awhile for their portions....W3IGW suggests we give an award for the most active ham on channel one each year, good idea Howard that will drum up activity....Mid-Month for December will be at the home of W3DGG on the 14th of the month....Keep tuned to 29493 for the final days of the campaign....W3AWE, John, was the host for the November mid-month meeting - John and Molly we thank you, I'll bet there wasn't much of that cake left....W3CSS one week late for the banquet tak!!....W3AK is cleaning house if you are looking for an item ask Tex he might just have it....W3IVD and K3CJC made it to the banquet....Where is W3QV these days??? Let's hear from you Brad....W3YJM and his XYL Sue were on hand to decorate the banquet room, Sue was in her Glory with K3KUD, W3QQH, W3VVS, K3GNM, W3YHV and W3ZPP as well as W3YJM taking order from her, seriously though, we thank Sue for lending the woman's touch to the decor....K3GNM came over to get this editor's DX-100 back on the air while I was banging out the BLURB, sure thank you AL...I still owe you a 6AU6A....K3HMX and W3DJW chasing the balloon up to Lakehurst....W3CIF provided us with a fine program last month on the Gen-O-Drive, thanks Al....K3JQC, Anne, XYL of W3WNC deserves a vote of thanks for shopping for the women's prizes for the banquet, the ladies all like them....W3DJV putting in high pass filter for a neighbor....W3PST on the air with W3RQZ....

W3CDY TEK-NI-GRAM  
DECEMBER 1960  
HAM MOBILE INSTALLATION

By  
Lloyd Sherman, W3CDY \*  
Part I

MOBILE ANTENNAS

Mobile operation is a departure from the customary shack type of layout and demands compromises. Even with these compromises, we can succeed in having many hours of fine mobile "ham" radio. To accomplish this we must in many respects achieve a "Happy Medium" between the desired ultimate and the simple solution.

VSWR	Reflected Power	Power to Antenna	Rflt. power blw. carrier
1.05	.06 W	99.94W	-32.2 db
1.10	.23	99.77	-26.5
1.15	.49	99.51	-23.2
1.20	.82	99.18	-20.8
1.25	1.47	98.52	-19.2
1.30	1.7	98.3	-17.7
1.5	3.9	96.1	-14.0
2.0	10.2	89.8	- 8.5
3.0	25.0	75.0	- 6
4.0	36	64	- 4.2
5.0	44	56	- 3.5
6.0	51	49	- 2.9

Figure 1

Reproduced above is a chart showing the relationship between various values of VSWR and the amount of power actually being delivered to the antenna. The figures used are based upon 100watts of RF power at the output of the transmitter. Reference will frequently be made to this chart as we develop our "Happy Medium".

MOUNTINGS

There are various types of mountings of the split ball variety. As long as it is a split ball it allows two directions of rotation. This will provide a latitude of adjustment for any angle of mounting, from a vertical antenna and a horizontal base plate or zero degrees to a vertical antenna and a vertical base plate or ninety degrees which is maximum. At this point let us examine the various ball assemblies. There are two types of split ball. One design divides the ball in a vertical plane with respect to the mounting and connecting stud in the one half and the tapped hole for the antenna in the other half. Let us look at it again in this way. The face of the split ball is always in a parallel plane with the antenna whip. This design demands that the mounting ends must be made larger to provide the necessary strength or they can be made of harder materials and therefore reduce the amount of additional mass needed to gain the same reliability. The second design splits the ball at 45 degrees from the mounting points. This method keeps the strength of the ball that was originally cast into it.

\*This is the first of a series on Mobile Installations by W3CDY which will appear as Tek-ni-grams. Permission to reproduce, copy or quote from any part of this series should be requested in writing from the author. Ed.

It allows the same degree of flexibility in mounting, no more, but gives a huskier appearance. Although I have no data in my possession to prove that this last type is stronger, it is my belief that they are and will take more beating.

Finishes of the balls vary in that some are slightly rough and painted black or silver, and others are smooth on the surface and painted black or silver or even chromium plated. The choice here is more a matter of personal taste and your willingness to part with the necessary cash for the refinement in appearance.

The second part of this series will cover mounting plates. Subsequent parts will cover all phases of the mobile installation.

73 de W3CDY

Your Tech Ed has in the past made a number of requests for either Tek-ni-grams or materials for them from you as a group and some of you as individuals. Unless I get some of them soon, after Lloyd's series is over, I will probably have to change these pages from the "Tek-ni-gram" to "A Biography of Joe and His CB-1" or "The Life and Loves of the Y3HIJ Special". I don't think any of us want that to happen. I feel certain that each of you has developed some device or "gimmick" that would be helpful to the rest of us. If you will let me know about them, I will be more than happy to type them up for publication.

73 de K3HIJ

#### SWAP AND SHOP

FOR SALE: Best reasonable offer for the following items:-

1. Heath Q Multiplier
2. New ARC 5 transmitter 5.3 to 7 mc
3. RCA Fixed tuned rcvr crystal controlled on Phil-Mont
4. 12 v rcvr vibrator power supply with built in filter 250 v 80 ma RCA
5. Collins plug in 200 kc standard (ART 13)
6. 115 AC 35 watt constant voltage regulator
7. SCR 522 transmitter-panel mounted, metered, P.B. controlled, 4 channel with 829 amplifier and final 2 vt127A's (all in cabinet or separate)
8. small DM53A2 dynsmotor 220 v 80 ma 12 v input
9. PE101C dynsmotor converted, fused and with 12 v solenoid
10. ARC 5 receivers 3 to 5.5 and 6 to 9 mc
11. 2 ARC 5 receiver racks

Purchase of any of the above will receive an appropriate gift item from stock of radio parts.

W3AK



SWAP AND SHOP (continued)

FOR SALE: Collins 75A3 with 3 kc and 800 cycle mechanical filters, broad band filter, Collins 100 kc freq. standard and matching speaker. Excellent condition.

Panoramic Panadapter Model PCA-2 excellent condition.

W3QZ0 VI 8-8112

Panadapter Model PCA 2T-200 two inch scope. Mfr. by Panoramic Radio Corp. Input 450 to 470 kc. Instruction book and spare 2AP1 tube \$30.00

Panoramic adapter type BC1031-B three inch scope needs 3BP1 scope tube. Schematic as is \$25.00 input 450 to 470 kc.

W3VVS TU 6-8666

2 ea. Link 50 UFS Base stations less receivers. Transmitter PP 807's on 30 mc, 120 watts input. Power supply is 600 v @ 300 ma using ohpke input and 816 rectifiers. Cabinet is desk mount including self-contained speaker, two pilot lights, fil and plate sw. space for two 3" meters and 1A handset hanger. This unit is ideal as basis for 10 meter intercom or fixed station rig. Parts alone worth many times the price \$ 20.00

1 ea. Philco FRT-160 GT Base station cabinet only. Desk top mount. includes speaker, two pilots, mike connector, etc. on front panel \$ 5.00

Moni-Match Line unit. Insert this unit in your coax line, connect an O-1 ma meter and read forward and reflected power. \$ 5.00

Elmac power supply- 300 v @ 100 ma 12 v dc. Ideal supply for your receiver and exciter section of your transmitter. \$ 15.00

2 ea. PE-103A Dynamotors only-6 @ 12 v dc. input-500 v dc @ 200 ma output. \$ 10.00 each

Shure H1 Impedance Dispatcher type microphone with A85C Push to talk switch and S36A stand. Ideal mike for those who like Phil-Mont's type of operating \$ 15.00

Hallcrafters HT-18 VFO. 80 through 10 mtr output using 6L6 output. One of the most stable VFOs on the market short of a Collins. AM-NBFM, Spotting, and automatic operation. \$ 50.00

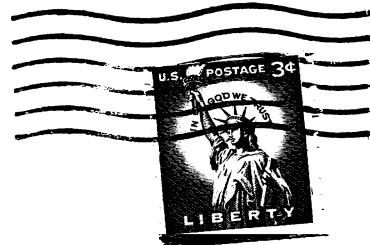
W3QQH Turner 4 8469

FOR SALE: Johnson TR switch like new \$15.00....Central Electronic Slicer type "B" with Q Multiplier used 3 mos. \$ 50.00....4 MFD @ 3000 v oil filled cond. Eicor Dynamotor input 5.8 v dc \$5.00 output 600 v dc @ 275 ma \$ 7.50.... RCA Modulator transformer type 901769-501 Pri and sec 5500 ohms 1.14 KVA .198 Amps dc best offer....Thordarson Power transformer type 2209 100 v 60 cycle, sec 1500-1500 1300 VA best offer....Per-Metal enclosed Relay Rack 6foot \$ 10.00 W3IGW

Transmitter RCA MI 7814 can be converted to 10 meters diagram included \$ 20.00 W3WNC

S-53A Hallcrafters Receiver 80 to 6 meters \$ 40.00

Heath-kit tenor xtals-29.493 294333 28.8 \$ 40.00 Bumper mount and 96" whip K3BCF



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